

Anesthesia workstation

ESV-640S



Anesthesia System

ADULT · PEDIATRIC
Friendly Powerful Reliable

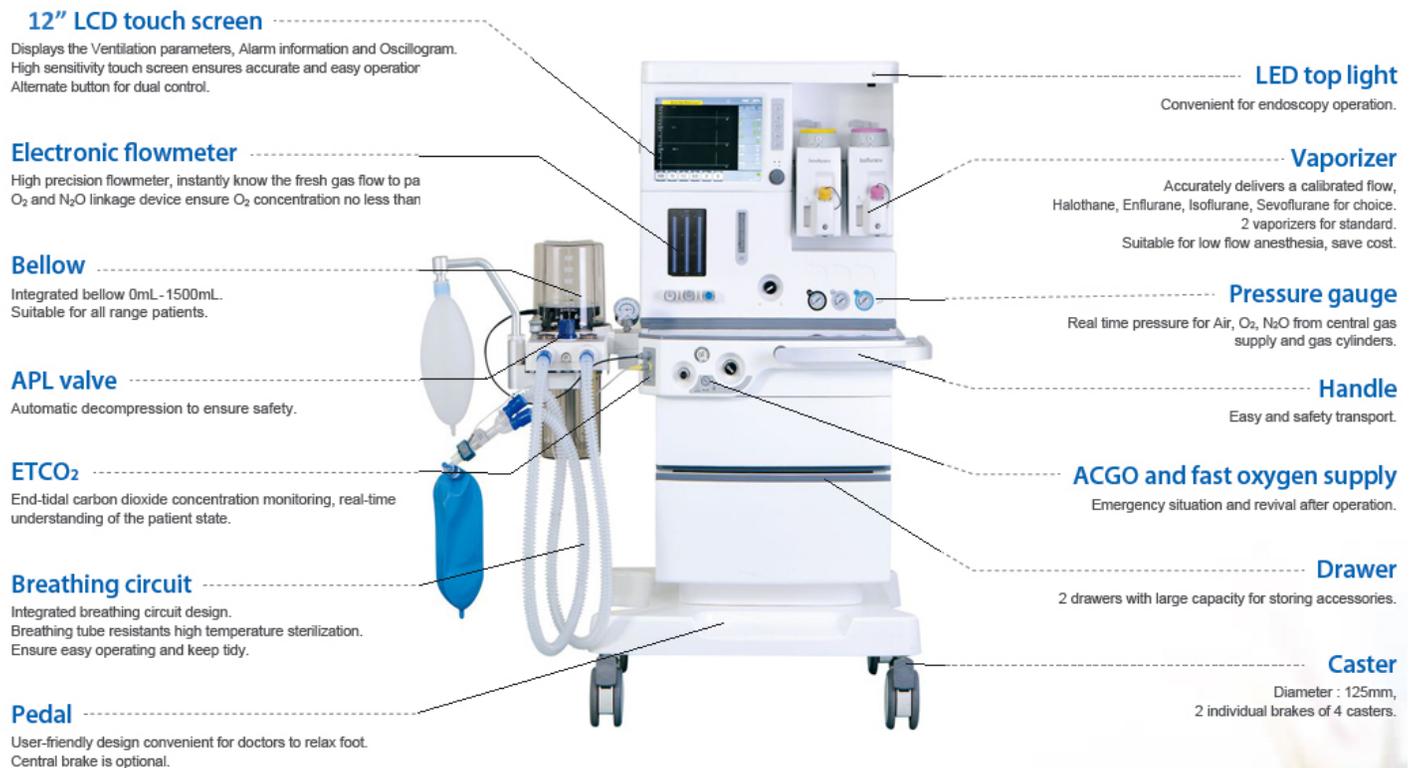
Application

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Department and other departments.

Professional design for adult, child and infant inhalation anesthesia and respiratory management, with advanced ventilation modes.

Outstanding ergonomic design, it ranks high level in safety, stability and convenience as well as user experiences.

This high-end model combine proven ventilation technology with the latest refinements in ergonomics and systems integration with an advanced, easy to use anesthesia table designed together with experienced experts to streamline your anesthesia workflow.



Trust point

Patient Centered Ventilation: Precision in an anesthesia ventilator, from conventional ventilation to advanced modes and adapt to wide range patient.

Safety design: Vaporizer with temperature, pressure, flow compensation and self-lock function.

Real time pressure-time, flow-time loop Oscillogram and high precision ETCO₂, O₂ concentration detection function included.

Alarm: Three level alarm system, visual and sound alarm information.

Power: Built-in battery ensure 2-3 hours using when power failure.

Separate design of electric circuit and gas circuit ensure long using life.

Flexible configurations able to customize your requirements.



Optional part 1

Anesthetic gas monitor, Vital Signs Monitor:
Real-time monitoring of anesthetic gas and patient's physiological condition.



Optional part 2

AGSS: To enhance the safety of the environment in which members of staff in close proximity with waste anesthetic gases and vapors (agents) work

TECHNICAL SPECIFICATION

Ventilation mode

IPPV, A/C, PVC, PSV, SIMV, SIGH, MANUAL

Ventilator Parameter Range

Flow meter: O₂ (0.1 ~ 10 L/min)
N₂O (0.1 ~ 10 L/min)
AIR (0.1 ~ 10 L/min)

Rapid oxygen supply: 25 L/min ~ 75 L/min

Tidal volume (Vt): 0, 20 mL ~ 1500 mL

Frequency (Freq): 1 /min ~ 100 /min

I:E: 4: 1 ~ 1: 8

PEEP: 0 cmH₂O ~ 30 cmH₂O

Pressure triggering sensitivity (PTr): -20 cmH₂O ~ 0 cmH₂O (Based on PEEP)

Flow trigger sensitivity (FTr): 0.5 L/min ~ 30 L/min

Pressure control (PC): 5 cmH₂O ~ 60 cmH₂O

SIGH: 0 (off) 1/100 ~ 5/100

Apnea Ventilation: OFF, 5 s ~ 60 s

Pressure Limit: 20 cmH₂O ~ 100 cmH₂O

Monitoring parameter

Frequency (Freq) : 0 /min ~ 100 /min

Tidal volume (Vt): 0 mL ~ 2000 mL

MV: 0 L/min ~ 100 L/min

Oxygen concentration: 15 % ~ 100 %

Oscillogram

P-T (pressure – time)

F-T (flow - time)

V-T (volume – time)

ETCO₂ -T (ETCO₂ - time)

P-V loop (pressure - volume loop)

Alarm and protection

The AC power failure alarm: Power failure or no connection

Internal battery backup low voltage alarm: $< 11.3 \pm 0.3$ V

No tidal volume: ≤ 5 mL within 6 s

High oxygen concentration alarm: 19% ~ 100%

Low oxygen concentration alarm: 18% ~ 99%

High Airway pressure alarm: 20 cmH₂O ~ 100 cmH₂O

Low Airway pressure alarm: 0 cmH₂O ~ 20 cmH₂O

High Minute Volume alarm: Adult (5 L/min ~ 20 L/min)

Low Minute Volume alarm: Paed (1 L/min ~ 15 L/min, 0 ~ 10 L/min)

Continuous Pressure alarm: (PEEP+1.5 kPa) over 16s

Suffocation warning: 5 s ~ 60 s no spontaneous ventilation

The maximum limited pressure: <12.5 kPa

Fan error: Show on screen

Oxygen deficit: Show on screen

Working condition

Gas source: O₂, N₂O, Air

Pressure: 280 kPa ~ 600 kPa

Voltage: 100 ~ 240 V

Power frequency: 50/60 Hz

Packing size

Wooden case packing size: L 870 * W 890 * H 1510 mm - G.W.: 195 kg

CBM: 1.17 m³

Anesthesia machine size: L 930 * W 750 * H 1405 mm - N.W.: 124 KGS



Breathing circuit



APL valve



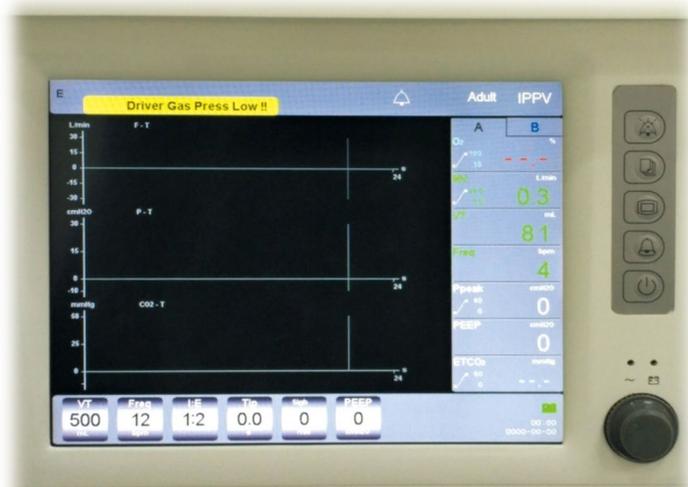
Flowmeter



Breathing tube



Pressure Gauge



12" touch screen display



ANESTHETIC MONITOR OPTIONAL **AG5S**

Technical Specification:

Sample Rate: 50mL/min, ± 10 mL/min

Operation method: Non-dispersive infrared(NDIR), no moving parts

Initialization Time: 20 sec, full specification within 60 sec

Calibration: No routine user calibration required

Compensation: Automatic for atmospheric pressure, temperature

Rise Time: Co2<200ms, N2O, AA<350ms

Respiratory Rate: Range 3~150BMP Accuracy ± 1 BMP

Breath Detect: Adaptive threshold, minimum 1% 2 value change

Agent Threshold Agent: 0.15%

Gases Accuracy:

Co2: 0-10% $\pm(0.2 \text{ vol\%} + 2\% \text{ of reading})$

10-15% $\pm(0.3 \text{ vol\%} + 2\% \text{ of reading})$

N2O: 0-100% $\pm(2 \text{ vol\%} + 2\% \text{ of reading})$

ISO: 0-6% $\pm(0.2 \text{ vol\%} + 2\% \text{ of reading})$

ENF: 0-6% $\pm(0.2 \text{ vol\%} + 2\% \text{ of reading})$

SEV : 0-8% $\pm(0.2 \text{ vol\%} + 2\% \text{ of reading})$

Temperature & Humidity:

Operating: 0°C to 40°C, 10 to 90%RH, no-condensing

